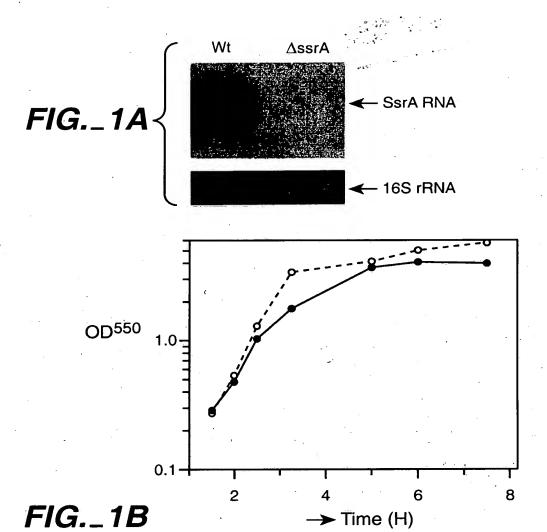
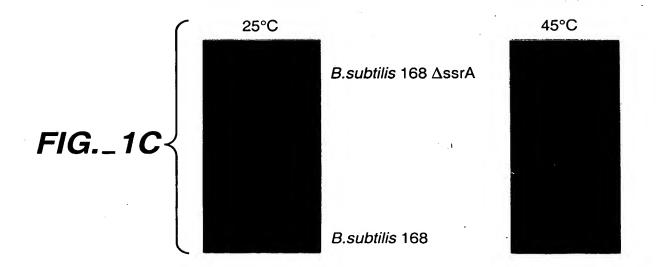
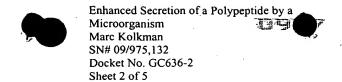
Enhanced Secretion of a Polypeptide by a Microorganism
Marc Kolkman
SN# 09/975,132 SE WEISUE

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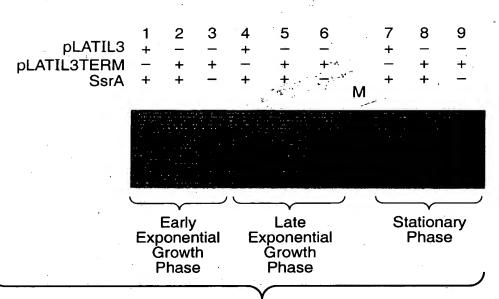
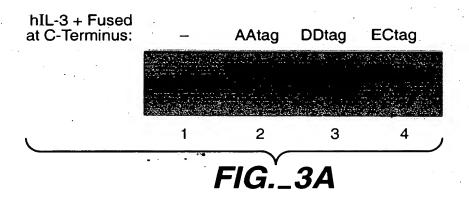


FIG.\_2



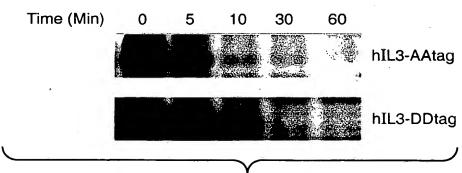
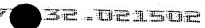
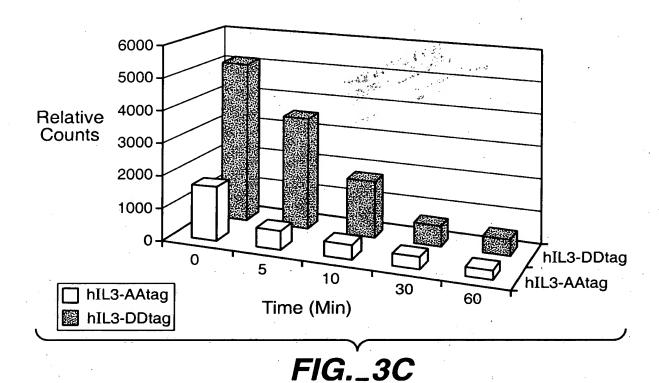


FIG.\_3B



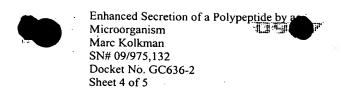
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2 3 5 6 7 8 9 10 1 168 168 WB600 WB600 WB600 168 168 WB600 WB600 WB600 Strain AA AA AA DD AA AA AA DD SsrA pLATIL3 pLATIL3TERM SsrA-tagged hIL-3→ Run-off hIL-3→ hIL-3→ Anti-hIL-3 Anti-Bs-SsrAtag

FIG.\_4



SP DE 15UE

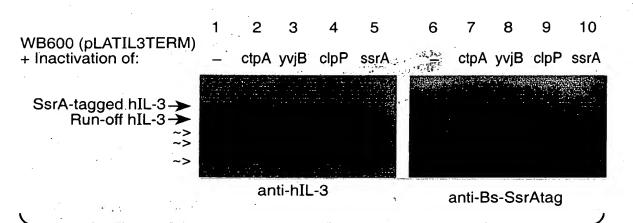


FIG.\_5

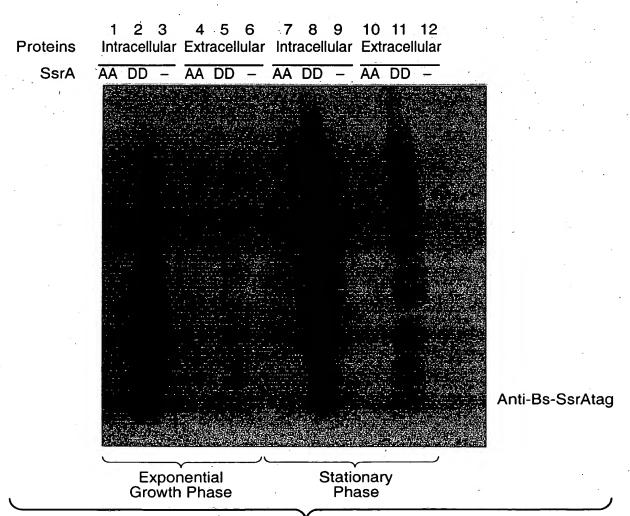


FIG.\_6

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IL-3 amino acid sequence (Native sequence associated with its native signal sequence)

MSRLPVLLLL QLLVRPGLQA PMTOTTPLKT SWVNCSNMID

EIITHLKQPP

GEDODILMEN NLRRPNLEAF LPLLDFNNLN NRAVKSLQNA

SAIESILKNL

LPCLPLATAA PTRHPIHIKD GDWNEFRRKL **TFYLKTLENA** 

QAQQTTLSLA IF

IL-3 as encoded by plasmid pLATIL3

MKQQKRLYAR LLTLLFALIF LLPHSSASAA PMTQTTPLKT SWVNCSNMID EIITHLKOPP LPLLDFNNLN GEDODILMEN NLRRPNLEAF NRAVKSLONA SAIESILKNL LPCLPLATAA PTRHPIHIKD GDWNEFRRKL TFYLKTLENA QAQQTTLS

IL-3 amino acid sequence (Substituted tag charged C-terminus)

MKQQKRLYAR LLTLLFALIF LLPHSSASAA PMTQTTPLKT SWVNCSNMID EIITHLKOPP LPLLDFNNLN GEDODILMEN NLRRPNLEAF NRAVKSLONA SAIESILKNL LPCLPLATAA PTRHPIHIKD GDWNEFRRKL TFYLKTLENA QAQQTTDD

IL-3 amino acid sequence (Tagged<sup>14</sup>)

MKQQKRLYAR LLTLLFALIF LLPHSSASAA PMTOTTPLKT SWVNCSNMID EIITHLKQPP LPLLDFNNLN GEDQDILMEN NLRRPNLEAF NRAVKSLQNA SAIESILKNL LPCLPLATAA PTRHPIHIKD GDWNEFRRKL TFYLKTLENA QAQQTTLSAG KTNSFNQNVA LDD

FIG.\_7